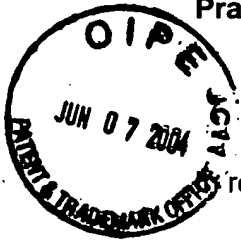


DPW.



Practitioner's Docket No. 2002DE315

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Richard Wisdom

Application No.: 10/734,527

Group No.: 1651

Filed: December 12, 2003

For: Method for the production of (1S, 4R)-(-)-4-Hydroxy cyclopent-2-enyl esters

Commissioner for Patent

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

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Applicant Richard Wisdom
Serial No. 10/734,527
Page 2

Dear Sir:

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith).

1. ☒ Enclosures accompanying this Information Disclosure Statement are:
 - 1a. ☒ Form PTO-1449.
 - 1b. ☒ Copies of Information Disclosure Statement citations.
 - 1c. ☐ PCT Search Report
 - 1d. ☐ Copies of Co-pending U.S. Applications.
2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b) with the filing of the U.S. patent application. Accordingly, no fee or §1.97(e) Statement is required.
3. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the latter of three months after the U.S. patent application filing date or the first Office Action on the merits. Accordingly, no fee or §1.97(e) Statement is required.
4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance. The \$180.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is to be charged to Deposit Account No. 03-2060.
5. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(e) in that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. Accordingly, no fee is required.
6. ☐ This Information Disclosure Statement is filed in conjunction with a Request For Continued Examination. Accordingly, no fee or §1.97(e) Statement is required.

7. ☐ The English language documents identified by reference in the TRANSLATION Section of the foreign patents list of the attached 1449 Form are believed to be a concise statement, or the equivalent or substantial equivalent to the foreign language documents cited in the attached 1449 Form.
8. ☐ In addition to the documents cited, the Office's attention is directed to the following co-pending U.S. Application Serial Number(s), copies of which are attached for the convenience of the Office:
- 9 ☒ The DD 264707, DD 290663, DD 293136 & DD 290662 references disclose that the group of Theil has worked with pancreatin/porcine pancreatic lipase, but has also screened enzymes from mucor sp. (in house strain), Pseudomonas sp. (Amano PS), Lipozyme (Mucor miehi) and Candida sp. (382) for an enzyme to selectively acetylate cis-cyclopent-1-ene-3,5,-diol.

Respectfully submitted,



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FORM PTO-1449 U.S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b))	ATTY. DOCKET NO. 2002DE315	SERIAL NO. 10/734,527
	APPLICANT: Richard Wisdom	
	FILING DATE: 12/12/03	GROUP: 1651

U.S. PATENT DOCUMENTS

Examiner Initial		Patent Number	Issue Dte	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,448,051	9/10/02	Bastawade et al.			
	AB	4,618,690	10/21/86	Schneider et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION							
		DOCUMENT NUMBER	PUB. DATE	COUNTRY			TRANSLATION
	BA	DD283136	8/22/91	Germany			See IDS
	BB	DD290663	6/6/91	Germany			See IDS
	BC	DD290662	6/5/91	Germany			See IDS
	BD	DD264707	2/8/89	Germany			See IDS

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication**)

	CA	Nara et al., "Synthesis of Optically Active Compounds by the Novel use of Meso-compounds - 1. Efficient Synthesis of Two Structural Types of Optically Pure Prostaglandin Intermediates", Tetrahedron, Vol. 36, pp. 3161 to 3170 (1980)
	CB	Harre et al. "4-Oxo-2-cyclopentyl Acetates - A Synthetic Intermediate", Agnew. Chem. Int. Ed. Engl. 21; pp. 480-492 (1982)
	CC	Johnson et al., "A Two-Step, Three Component Synthesis of PGE, :Utilization of α -Iodoenones in Pd(0)-Catalyzed Cross-Coupling of Organoboranes" J. Am. Chem. Soc.; pp. 11014-11015(1993)
	CD	Deardoff et al., "APalladium-Catalyzed Route to Mono- and Diprotected Cis-2-cyclopentene-1,4 Diols", Tetrahedron Letters, Vol. 26, No. 46, pp. 5615-5618 (1980)
	CE	Laumen et al., "Enzymatic Hydrolysis of Prochiral Cis-1,4-Diacyl-2-cyclopentenediols; Preparation of (1S, 4R)-and (1R,4S)-4-Hydroxy-2-cyclopentenyl derivatives, Versatile Building Blocks for Cyclopentanoid Natural Products", Tetrahedron Letters, Vol. 25, No. 51, pp. 5875-5878 (1984)
	CF	Theil et al., "Lipase-Catalyzed Transesterification of meso-Cyclopentane Diols," Tetrahedron, Vol. 47, No. 36, pp. 7569-7582 (1991)
	CG	Jommi et al., "Enantioselective Synthesis of 3(S)-Actoxy-5-(R)-Hydroxycyclopent-1-Ene by an Enzymatic Transesterification in Organic Solvents," Gazzeta Chimica Italiana, Vol. 118, pp. 863-864 (1998)
	CH	Ghorpade et al., "Desymmetrization of meso-cyclopenten-cis-1,4-diol to 4-(R)-hydroxycyclopent-2-en-1(S)-acetate by irreversible transesterification using Chrazyme [®] ," Tetrahedron Assymetry, Vol. 10, pp. 891-899 (1999)
	CI	Johnson et al. "Enzymatic Asymetrization of meso-2-Cycloalken-1,4-diols and Their Diacetates inorganic and Aqueous Media," Tetrahedron Letters, Vol. 33, No. 48, pp. 7287-7290 (1992)
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		